

BA531 100% Solid Grade Thermoplastic Acrylic Resin

Introduction

LG MMA Corp. produces a wide range of acrylic coating resins based on its unique polymerization technology.

LG MMA's BA531 is a 100% solid hard methacrylic resin that has excellent durability, weathering resistance, gloss, transparency and scratch resistance.

In general, it can be used for metal or plastic coating by combining with plasticizer or other additives, providing excellent coloring, high hardness and high resistance to alcohol and moisture.

When applied to gravure ink top coating, it provides outstanding transparency (without rainbow) and scratch resistance.

Typical Application

- ☐ Gravure printing inks
- ☐ Protective coating for plastics
- ☐ General metal protective and decorative coatings

Physical Properties

Appearance	Powder
Solid content, mass %	100
Molecular weight (Mw, ave.)	100,000
Density @ 25°C, kg/liter	1.17
Brookfield viscosity at 23°C, cPs (40% solution in MEK)	6,600
Glass transition temperature (°C)	105
Acid value (mg KOH/g)	2

REMARKS : The listed values should be used for reference purpose only.

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Resins Viscosity in Various Solvents

Grade	Alcohol				Ester		Hydrocarbon		Ketone	
	Methanol	Ethanol	IPA	Butanol	Ethyl Acetate	Ethyl Acetate	Toluene	Xylene	Acetone	MEK
BA030	Insoluble	Insoluble	Insoluble	Insoluble	100 ³⁰	105 ³⁰	700	170 ³⁰	250	260
BA122	Insoluble	Insoluble	Insoluble	P.S.	290	410	310	480	150	140
BA123	Insoluble	Insoluble	Insoluble	P.S.	300	410	350	555	150	140
BA140	Insoluble	Insoluble	Insoluble	Insoluble	170 ³⁰	2,340	2,300	75 ²⁰	490	610
BA141	Insoluble	Insoluble	Insoluble	Insoluble	100 ³⁰	1,150	830	1,400	360	350
BA410	Insoluble	Insoluble	Insoluble	Insoluble	315	445	340	600	160	160
BA525	Insoluble	Insoluble	Insoluble	Insoluble	200 ³⁰	280 ³⁰	130 ²⁰	P.S.	970	1,050
BA531	Insoluble	Insoluble	Insoluble	Insoluble	770³⁰	80²⁰	8,500	90²⁰	7,280	6,600
BA611	Insoluble	Insoluble	Insoluble	Insoluble	110 ³⁰	1,600	1,070	50 ²⁰	530	520
BA720	Insoluble	Insoluble	Insoluble	Insoluble	270 ³⁰	440 ³⁰	2,430	65 ²⁰	155 ³⁰	2,130
BN720	Insoluble	Insoluble	Insoluble	Insoluble	220 ³⁰	380 ³⁰	2,300	63 ²⁰	140 ³⁰	1,780

- Values are Brookfield viscosity (cP), at 23°C of a 40% solids solution, except as noted.
- Superscript indicates % solids.
- I.S. : Insoluble / P.S. : Partially soluble (Test Method : Solubility 20wt% resin at room temperature)

Safe Handling Information

LG MMA Material Safety Data Sheet contain pertinent information that you need to protect your employees and customers against any known health and safety hazards associated with our products.

Contact

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